# STREAM SURVEY SUMMARY

(103-60-31)

# STREAM BLACK BEAR CREEK

LOC. Big Salt Lake, Prince of Wales Island

MAP REF	Craig C-3	LAT	55°37' N	LONG	132°57'40" W
PIRLITARY TO	Bid Salt Lake	A A A I	U DDAINIACE E	Black Bear	Creek
ORIGIN	Black Bear Lake	LENGTH	6.5 miles	WATERSHED	AREA 15.2 (%)
J					
1. FLOW		rapid to	lower	upper	lower upper
RANGE	cfs VELOCITY	sluggish	_AVG. WIDTH_25	<u>m. 25 m a</u>	VG. DEPTH 9" 3 ft
"LOOD HE	GHT		_COLOR/TURBIDITY_	H. yllow la	in / clear
	Plane-boat to Big Salt	Lake.		V	
2. ACCESSIBIL	HY By road from Craig, Ho	<u>llis, bri</u>	dge crossino	near mout	zh.
3. ACCESS ST	ATUS South Tongass Nat'l	Forest.			
4. SECTION S	URVEYED Lower 2 miles from :	mough.			•
TRIBUTA	ARIES Numerous small muskeg	tributar:	<u>ies. One-hal</u>	rt wite nba	stream on east
	bank a tributary 12' wid	e and 3" (	deep enters	Black Bear	c Creek.
5. BOTTOM TY	PE Lower 1/2 mi 50% rub	ble, 40%	STREAM GRADIENT	100	/aant novit 2200
gra	vel, 10% sand w/few bould	ers. Next	1/2 m1 4	10% rubble	doop shout as
6. POOLS - DI	ESCRIPTION & FREQUENCY LOWER MILE	nas occa	sional pools	5, 3-4 IL.	first bond above
Tond	as stream width with litt	re snerte	7. TWO SUCH	poors at .	rurious Rosatatio
_bridg	e. One mile up a very lar	ge, deep	(10 It.) poc	OT MICH IN	kurrous vegetatio
	ds 1/2 to 3/4 mile upstre	am.			
7. BARRIERS_	None noted.				
	manallant facilities	in ]	1/2 mile no	or the ne	v+ mile then
8. SPAWING	AREA Excellent facilities excellent above.	TU TOMET	1/2 mile, po	JOI the he.	At mile, then
	excerrent above.	adad bee b	omlogk-gnrii	ro calmoni	herry devils
9. BANK COV	ER Lower mile partially sh clubs a few gravel bars	Nov+ 3/	4 mile open	overhang	ing banks of (con
	D TYPE Hemlock spruce coast	. Next 3/	wide flat	, overnang.	th some musked
10. WATERSHE	headed up by mountai	ar roresc	e area	VALLEY WI	err bome mastes
	ES Cutthroat, Dolly Varden	n urarnag	e area. Imon chum i	calmon ci	lver salmon.
II. FISH SPEC	sculpin, stickleback, a	, pink sa	odly stoelh	and	I VCI BUIMOII)
	• · · · · · · · · · · · · · · · · · · ·	nd report	eary sceering	sau.	
12. FISHING F	HISTORY				
13. FISHING I	NTENSITY				
14. INVERTEBR	ATEC				
ABUNDAN					
ABOINDAIN					
15 ACHATIC	VEGETATION Diverse, abundant	above 1/	2 mile. Gre	en & brown	filamentous
15. AQUATIC	algae, mosses, ee	l grasses	, equisetum	, bladderw	orts, lily pads.
16 WATER US	E None.				
10. 11.11.11					
17. POLUTION	None.				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
18. REMARKS	Big Salt Lake should onl	y be gone	into by bo	at through	the south
	entrance at slack high w	ater. Co	nsult local	s. The la	rge shallow
	tidal area at the head of	of the lak	e make it d	ifficult t	o take a
	boat up near the mouth.				

DATE August 6, 1973

# ALASKA DEPARTMENT OF FISH AND GAME DIVISION OF SPORT FISH

### SUPPLEMENTAL DATA

NAME BLACK BEAR CREEK

LOCATION Big Salt Lake
Prince of Wales Island

A large rocky mud flat extends out 1/4 mile from the mouth of Black Bear Creek. Many types of algae and Zostera marina are present along with many Euphasids, sand dabs, starry flounder, Gangonid shrimp, and small sculpin. An interesting area.

### WATER

Air °C 14.0 Overcast skies Water °C 12.0 pH 6.6 Tot. alkalinity 1 grain/gal  $\stackrel{\frown}{=}$  CO<sub>2</sub>  $\stackrel{\frown}{\checkmark}$  5 mg/l Tot. hardness 1 grain/gal  $\stackrel{\frown}{=}$  17.1 mg/l CaCO<sub>3</sub>

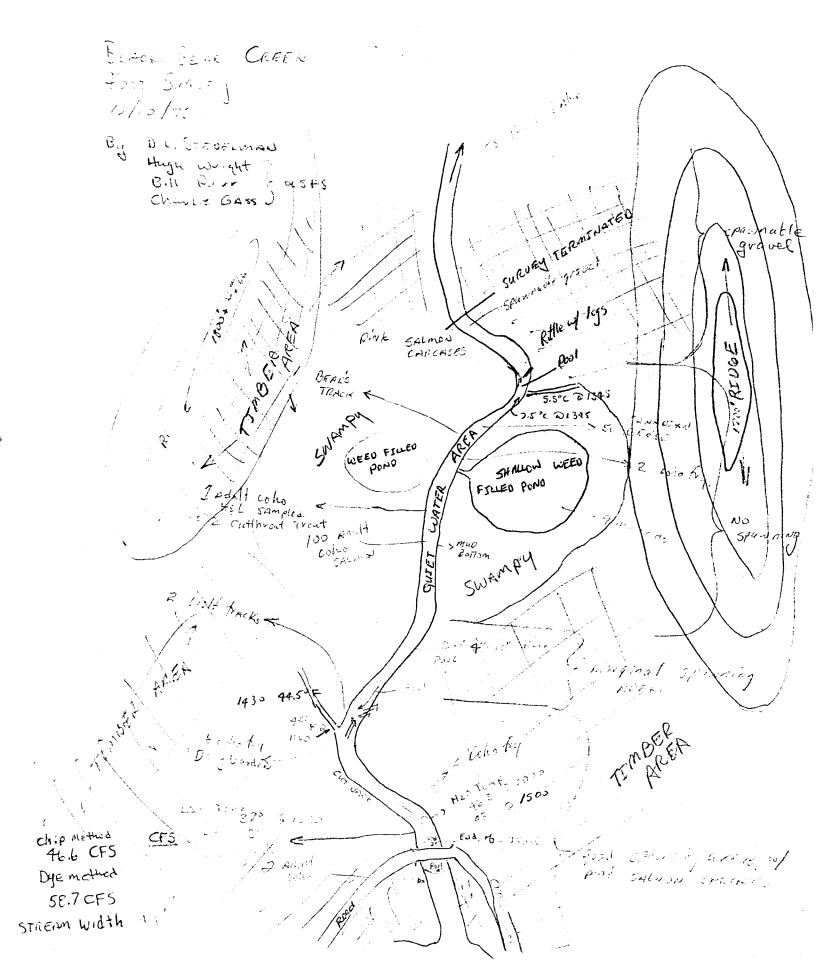
MINNOW TRAPS 6 trap hours

Sculpin	Silver	Salmon	Dolly Varden	3 Spine Stickleback
8.6 11.2 11.2 9.6 8.4 10.0 11.0 11.4 9.1	9.0 8.2 8.4 8.5 7.4 7.8 8.9 6.7 6.8	9.1 8.6 7.8 6.4 8.6 4.2 9.1 9.3 7.6	14.8 11.5 9.3 Three cutth up w/rod an X F.L. 34.5	
			Schools of	pink and chum salmon

DATE August 6, 1973

were seen in most of the pools.

TIMBERED AREA.



CODA PURIT SERVICE

# Black Bear Ouk Lower Lake to Big Salt Lake.

K-1 STREAM CHANNEL STABILITY FIELD EVALUATION FORM

•					7	COLUMN TOTALS	
	<u>η</u> ,		7		7	100	Moss & Algae)
term blown may be pleasured.	_		_	Total too and and first wa	- (:	green,	
(3) abeent, relice great, such	(3)	2) in backwater areas. Season-	9 (2)	welcelly & pool areas.		rowth target	Clinging Aquatic
Perennial types scarce of (4)	<u>}</u>	Present but spotty, switly	7	Common Algal forms in low	+	2	
	ا ا_ـــــــــــــــــــــــــــــــــــ	Some filling of rools.		The second secon	-	deposition.	Deposition
nearly yearrons.		constrictions, and bends.		Trades afternen Some		affected by scouring and	Scouring and
11 6 3 (11)	(0)	5 scour at obstructions,	17	constrict ins and where	6	· Or chie	***
in a state of flux or char	_	30-50. attected. proports		5-30% afrected. Scour at	)	2000	S Percent Stable Juletian
Horn than 50% of the bott.		orable referration to both	1	Stable mater als 50-80%.			Croucton
Stable moterials 0-202.	-	10 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- G	Dietribution Shift Slight.	<u> </u>	to change in sizes evident.	
Harked hattibution change	12)	Marata chance in 9121.	7/0	Some overtraphics	•	Sacked and for overlapping.	では、サール・ロー・コンド・コンド・コンド・コンド・コンド・コンド・コンド・コンド・コンド・コンド
BASOLCA CASTLE	_	the no apparent over lap-	)(		-	Assorted gizes tightly	Constitution of
TO DACTOR COLUMN (C)	(0)	Mostly a loose assortment	(1)	שייים ביים ביים ביים ביים ביים ביים ביים		Bearbod Con. Hor of Price	
asoo I and lone Loose	-	- Trigary # 10% 16 00-000		up to 35% bright surfaces.		0022	SEIGHTHESS
		TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	(2)	Mostly dull but may have		111	
Predominately bright, 65% (4)		50-50 July 110	1	Surfaces smooth o liate	J	Surfac	Wilder of the Contract of
sions, surfaces amooth.	<u>.</u>	-		. 9	$\widehat{z}$	Sherp edges and corners,	Took Appeller fre
(1) [weil rounded in all dimen (4)]	(1) (1)	Corners & edges well round-	3				HC. T.
	-	-			1		
	1	old and some new pars.	_	coerse gravels.	٠,	of chainer or borne ages.	Depesition
Arrelarated bur developmen		STAVEL & COATSE SERIE OF	(9)	formation, most from	(2)	Title to the state of the state	
dominately fine particles.(10)		. Todet ace deposit and on		Some new increas in bar	)	little or no colargonent	
Extensive deposits of prof.	r:	Walter denocition of new	+	٠   -	(	Ithan 6" high senerally.	Carried Control of the Control of th
ure of overhansa frequency	٠			3 6000	Ş	Infrequent raw banks less	
3,000 0,000 22 12300 2000		high. Root ant cyrthangs	(8)	The second of th	ma		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				~ :	-		
ation(x)5 cut	-	and the last the second second	1	and less firm.	_		Sediment Traps
Securing.		filling of partial		tions and deflectors never	(		Flow Deflectors
[ull, channel migration	_	~~		minor pear Hilling. Watter	3	of pool & viffles stable	Costructions
Ston yearlong. Sed. Timps 12	$\frac{(1)^{2}}{2}$	& deflectors move with night	<u>-</u>	CLOSIAS CRITICAL CONTRACTOR	_	embedded. Flow pattern	
GricTecrols compensation (1)	_			Contract of the contract of th	_	Rocks, old logg firmly	
a comment of the comm		Exclerately frequent, moder-		San prosent sausing	1	TO DO TO THE REAL PROPERTY OF THE PARTY OF T	THOR SEE CONFESS
Eronwart obstructions and	i F	3-6" diameter class.	-	boulders to subble 6-12".	_	) = 1 	
ernoplaizes, 1-3" or lessich		TO to sok , with most to see	÷	40 to 65%, mostly small	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
A 20% rock tragments of	5)	TIONS TO THE TOTAL TO THE	1	ratio 8-15.	-	E'D ratio < 7.	Ch nel Capacity
		COS20 - CECCO - CECO - CECO - CECCO -	<u></u>	rare. Width to Depth 'W/U/	$\widehat{\Xi}$	nsom Frak fi	
c mmon. W/D ratio >25.	( <u>)</u>	make Orasional overback	()	VC 17		Ample for present plus some	LA TRICK CONT.
	-11	warm's contains present	1		1		SXVA3 CARS
		Clocking	+	deep root mass.			Ses cation
and shallow root hass.	9:	discontinuous root mass.		Suggesta a reas delise or	<u> </u>	deep, dense root mass.	I TOB
Care bear, discentionals,	ŗ.	-		of foods Arbor	[(U)	suggests a	Y TEOLOGICATION
species o kess where the	4s (A)	and still fewer species	6)		-	(y. v.801	
/UC: GCTORE) TICK TINE		30.5			7	The Channet area.	(Floatable Oblects)
Som demosity plus fewer	工工	lare both increasing.		ruigs and limbs.		ESSCRETALLY GOOGLE FICE	Debris Jam Potential
prodominantly larger sizes of		Present, volume and six	3	~	(2) F		(1.X1) (1.X1)
Hoderate to heavy amounts,	(6)	DV CALCE COLLEGE TEACH		future potential.	Ž	The top opposis.	
imminent danger of same.	<u>.</u>		(0)	Hastly healed over. Low	3	or fotore mass	Core Parting
sediment rearly yearlong 67/2	_	בייים אורים איניים איניים איניים איניים	-	uent and/or ve	4	vidence of past or	270 - 110 - 23:55
Frequent or large, causing	FT	a territoria		1		Bank slope Eradient 430%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Bank slope stadient de Till	-	Bank slope s	-		<b>+</b>	EXCELLENT	× 1
	-						lee fate.
15000	1	cure by Classes	Indicato	Stabilit. In		**************************************	

add the values in each column for a total reach score here. (E. 26 + c. 16 + F. 6 + P. 6 = 50).

Reach score vi: <38\*Excellent, 39-76\*Good, 77-114\* Fair, 115\*\*Poor

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Reach Black From the Lower Code to Bug Sell Cais

# Rating Steet

Stream Feature	Imp. Factor		Rating		Score
<ol> <li>Width</li> <li>Flow</li> <li>Pool-riffle ratio</li> <li>Shade: Temp. Reg.         <ul> <li>Habitat</li> </ul> </li> <li>Fool quality</li> <li>Riffle quality</li> </ol>	2 10 5 1.5 1.5 5 5 30.0	X X X Y Y Y X	1.0 1.0 1.7 1.3 1.3 1.3 1.73	= = = :: :: = TOTAL	2.30 10.22 2.02 2.42 2.42 4.00 3.65

30 Total

Score X miles = mile value

# Rating System

Width: 0.1/ft. (max. 1.0)

Flow: 0.1/inch of riffle depth (max. 1.0)

Pool/riffle ratio: 0.8 - 1.0 if pool 35%: riffle 35% 0.4 - 0.7 if either pool or riffle > 35%

0.1 - 0.3 if both 35%

Shade: 0.2 for each 20% of shaded stream surface

fiel quality: greater than average channel width.

0.9 = 2 ft. or deeper with abundant shelter

0.8 = 3 ft. or deeper exposed

0.7 = 2 ft. or deeper exposed

0.6 = <2 ft. and abundant shelter

0.5 = **\dot{\zeta}** 2 ft. and intermediate shelter

## Riffle quality

1. Bed material 
$$-1.0 - 0.8 = gravel$$
  
 $0.7 - 0.5 = rubble$ 

2. Water depth - 
$$0.4 - 0.1 = bedrock$$
  
 $6'' - 1.0$   
 $4''-6'' = 0.8$   
 $2''-4'' = 0.4$ 

2" = 0.1

3. Water velocity - 1.5 - 3 ft./sec. = 
$$1.0 - 0.6$$
  
0.5 - 1.4 ft./sec. =  $0.5 - 0.2$   
0.5 ft./sec. =  $0.1$ 

4. Total and divide by 3.